

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

7/8

PCT

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|---|
| To: SAKAKIBARA KOUICHI |
| 1-103-1 SUGAMINAMI HOTSU-CHO HASHIMA-SHI GIFU-KEN 501-6335 JAPAN |

**NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION**

(PCT Rule 44.1)

| | |
|---|--|
| Applicant's or agent's file reference PCT-03-S001 | Date of mailing (day/month/year) 18.11.03 |
| International application No. PCT/JP03/09964 | International filing date (day/month/year) 05.08.03 |
| Applicant SAKAKIBARA Kouichi | |

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

| | | |
|--|---|---------|
| Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan | Authorized officer Commissioner of the Patent Office Telephone No. +81-3-3581-1101 Ext. 3368 | 3W 8714 |
|--|---|---------|

ATTENTIONS

1. An applicant should pay attention that there is an amendment period for requesting to International Bureau computing from the dispatch date of the international search report under Treaty Article 19 (1) and Regulations 46.1.
2. An applicant should pay attention to the period prescribed by Treaty Article 22 (2).
3. Demand for copy of documents

Copy of the documents described in the international search report.

An applicant can request the copy of these cited documents to the Japanese Patent Office, however, Japan Patent Information Organization also services sales of the copy of these cited documents. Those who request copying of the cited documents should pay attention to the following points.

[Application Method]

- (1) As for Patent (Utility Model, Design) Gazette, the following points shall be defined clearly.
 - Types of patent, utility model, and design
 - Fiscal year and number of publication of application or publication of unexamined application (or patent number, registration number)
 - Necessary number of paper sheets
- (2) As for documents except for the gazette, the following points are required attention.
 - Be sure to attach the copy of the international search report (which shall be returned).

[Application and Reference]

〒135-0016

4-1-7 Toyo Koto-ku, Tokyo
Sato Daiya Building
Foundation of Japan Patent Information Organization
Information Processing Department
Copy Service section
TEL: 03-3508-2313

Note: The period for requesting the copy of the documents to Japan Patent Office is set to 7 years from the international application date.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the *PCT Applicant's Guide*, Volume II.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|---|---|---|
| Applicant's or agent's file reference PCT-03-S001 | FOR FURTHER ACTION | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |
| International application No. PCT/JP03/09964 | International filing date (day/month/year) 05.08.03 | (Earliest) Priority Date (day/month/year) 30.09.02 |
| Applicant SAKAKIBARA Kouichi | | |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

| | |
|---|---|
| 1. Basis of the report | |
| a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | <input type="checkbox"/> |
| <input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). | |
| b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: | |
| <input type="checkbox"/> contained in the international application in written form. | |
| <input type="checkbox"/> filed together with the international application in computer readable form. | |
| <input type="checkbox"/> furnished subsequently to this Authority in written form. | |
| <input type="checkbox"/> furnished subsequently to this Authority in computer readable form. | |
| <input type="checkbox"/> the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. | |
| <input type="checkbox"/> the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. | |
| 2. <input type="checkbox"/> Certain claims were found unsearchable (See Box I). | |
| 3. <input type="checkbox"/> Unity of invention is lacking (See Box II). | |
| 4. With regard to the title, | |
| <input checked="" type="checkbox"/> the text is approved as submitted by the applicant. | |
| <input type="checkbox"/> the text has been established by this Authority to read as follows: | |
| 5. With regard to the abstract, | |
| <input checked="" type="checkbox"/> the text is approved as submitted by the applicant. | |
| <input type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. | |
| 6. The figure of the drawings to be published with the abstract is Figure No. <u>2</u> | |
| <input checked="" type="checkbox"/> as suggested by the applicant. | <input type="checkbox"/> None of the figures. |
| <input type="checkbox"/> because the applicant failed to suggest a figure. | |
| <input type="checkbox"/> because this figure better characterizes the invention. | |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09964

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A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl? F16J15/16, F27B7/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl? F16J15/16, F27B7/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2001, Japanese Registered Utility Model Gazette 1994-2001, Japanese Gazette Containing the Utility Model 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | JP 62-195094 U (ISHIKAWAJIMA HARIMA H.I.CO.) 1987.12.11, Fig1-6 (No family) | 1, 5-7 |
| Y | | 2-4, 8-12 |
| Y | JP 5-45329 U (NOK CO.) 1993.06.18, Fig1-6 (No family) | 2, 8 |
| Y | JP 2000-291806 A (TANKEN SEAL SEIKO CO.) 2000.10.20, Whole specification, Fig1-4 (No family) | 3, 10 |
| Y | JP 9-79756 A (SHIN NIPPON SEITETSU CO.) 1997.03.28, Whole specification, Fig1-4 (No family) | 3, 10 |
| Y | JP 63-175350 U (SANAI INDUSTRY CO.) 1988.11.14, Fig1-4 (No family) | 4 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"%" document member of the same patent family

Date of the actual completion of the international search

31.10.03

Date of mailing of the international search report

18.11.03

Name and mailing address of the ISA/JP

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

T. toh



3W 8714

Telephone No. +81-3-3581-1101 Ext. 3368

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/09964

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | JP 4-41153 U (RIKEN CO.) 1992.04.08, Fig1-5 (No family) | 4 |
| Y | JP 2000-337522 A (MATSUO ENGINEERING CO.) 2000.12.05, Whole specification, Fig1-2 (No family) | 9 |
| Y | JP 37-10618 Y (HITACHI CO.) 1962.05.18, Whole specification, Fig1-2 (No family) | 9 |
| Y | JP 10-220588 A (NOK CO.) 1998.08.21, Whole specification, Fig1-6 (No family) | 11, 12 |
| A | US 4405137 A (Samuel B. Webb) 1983.09.20, Whole specification, Fig4-6 & CA 1203978 A | 1-12 |